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Social Network Analysis 10-20-2022

Assignment 5

1.

	E3	E4	E6	E7	E11	E15	E21	E27
E3	0	1	1	1	1	1	1	1
E4	1	0	1	1	1	0	1	1
E6	1	1	0	1	1	1	1	1
E7	1	1	1	0	1	1	1	0
E11	1	1	1	1	0	1	1	0
E15	1	0	1	1	1	0	0	0
E21	1	1	1	1	1	0	0	0
E27	1	1	1	0	0	0	0	0

2.
- a. Network size: 7
- b. Density: 0.714
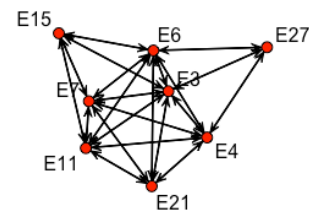
3.
- a. The three execs situated with the best ideas are E2, E34, and E9. These execs have the lowest ConstraintWhole value, and Burt associates low constraint with better flow of good ideas.
- b. The three execs who are least app to be situated with good ideas are E1, E18, and E37 because they have the highest constraint, which translates to a negative association with performance and idea value.

4.

	Less-Senior	Senior
Size	5.61	5.15
EffectiveSize	3.48	3.23
ConstraintWhole	0.38	0.44

The network size, effective size, and constraint do differ a bit by seniority. We surprisingly see less-senior people have a larger size and effective size. And we see senior people have a larger constraint.

5.

	Mean	**Standard Deviation**
Educ1	3.82	1.76
Educ2	3.94	1.83
Educ3	3.95	1.78
Educ4	4.06	1.82
Educ5	4.17	1.84